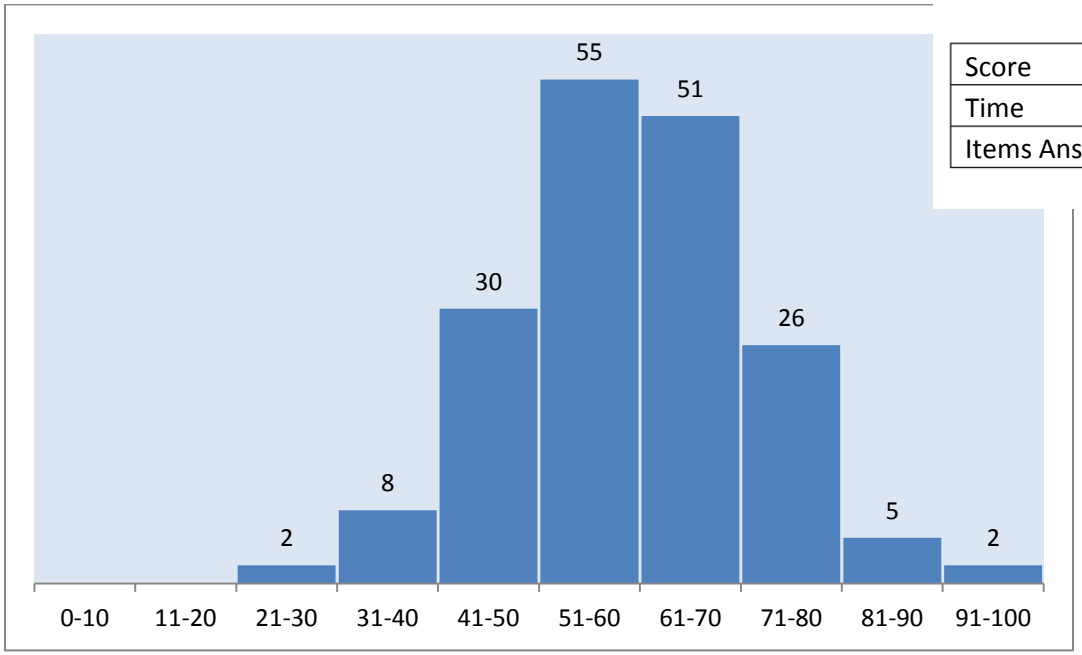
11-12 State Results

Architectural Drafting and Design

179 Participants



	Min	Max	Mean
Score	27	91	59.59
Time	0:15:12	1:00:00	00:33:03
Items Answered	97	100	99.88

Average Score: 60
Cut Score: 60
Pass percentage: 51%

Assessment: Architectural Drafting and Design
Number tested:179

Content Standards, Performance Standards, Indicators	NV State Averages
1) CONTENT STANDARD 1.0 : APPLY FUNDAMENTAL DRAFTING SKILLS	57.71%
1) PERFORMANCE STANDARD 1.1 : CREATE GEOMETRIC CONSTRUCTIONS	72.84%
1) 1.1.1 Define geometric terms and recognize various geometric shapes by name	89.39%
2) 1.1.2 Use lines, circles and arcs to construct regular and irregular geometric shapes	84.92%
3) 1.1.3 Construct angles, to include acute, obtuse, and right angles	94.97%
4) 1.1.4 Divide lines and bisect angles and arcs	83.24%
5) 1.1.5 Construct tangent, concentric and perpendicular geometric relationships	59.78%
6) 1.1.6 Calculate area, perimeter, and volume of geometric shapes to include circle, square, rectangle and triangle	55.31%
2) PERFORMANCE STANDARD 1.2 : DEMONSTRATE MEASURING AND SCALING TECHNIQUES	50.84%
2) 1.2.2 Determine appropriate engineering and metric scales	43.85%
3) 1.2.3 Measure and calculate object size, area and volume	77.09%
6) 1.2.6 Determine and apply the equivalence between fractions and decimals	42.46%
7) 1.2.7 Convert between customary (SAE, Imperial) and metric systems	46.93%
3) PERFORMANCE STANDARD 1.3 : DEMONSTRATE CONVENTIONAL DRAFTING PRACTICES	50.65%
3) 1.3.3 Utilize appropriate drawing composition and layout	37.43%
4) 1.3.4 Identify and utilize industry standard object properties (i.e., line weight, line type)	57.26%
4) PERFORMANCE STANDARD 1.4 : CREATE MULTI-VIEW DRAWINGS USING ORTHOGRAPHIC PROJECTION	70.39%
4) 1.4.4 Identify, create and arrange sectional views	70.95%
6) 1.4.6 Apply appropriate measurement units	69.27%
5) PERFORMANCE STANDARD 1.5 : APPLY DIMENSIONS AND ANNOTATIONS	41.34%
1) 1.5.1 Differentiate appropriate dimension standards (i.e. ANSI, ISO)	16.76%
2) 1.5.2 Arrange dimensions and annotations using appropriate standards (i.e. ANSI, ISO)	43.58%
3) 1.5.3 Use various dimensioning styles (i.e. aligned, unidirectional, polar, ordinate, datum)	61.45%
7) PERFORMANCE STANDARD 1.7 : DEMONSTRATE SKETCHING TECHNIQUES	45.07%
5) 1.7.5 Produce drawings from sketches	36.31%
7) 1.7.7 Utilize the alphabet of lines (i.e. styles and weights)	49.44%
2) CONTENT STANDARD 2.0 : APPLY FUNDAMENTAL CADD SKILLS	58.53%
1) PERFORMANCE STANDARD 2.1 : UTILIZE BASIC COMPUTER AND IT SKILLS	62.38%
1) 2.1.1 Use computer hardware and input/output devices to solve design drafting problems	79.89%
2) 2.1.2 Apply basic commands of an operating system and software	62.01%
5) 2.1.5 Access and use a network to transfer files	55.59%
8) 2.1.8 Evaluate electronic media to acquire information to complete drafting problems (i.e. internet, books, power point)	41.34%
2) PERFORMANCE STANDARD 2.2 : SET UP A DRAWING ENVIRONMENT	58.71%
1) 2.2.1 Select appropriate existing title blocks	53.63%
2) 2.2.2 Set drafting settings (i.e. grid, snap, and modes)	75.98%
3) 2.2.3 Determine and apply scaling factors	60.34%
4) 2.2.4 Assign line weights, line types and colors	51.40%
5) 2.2.5 Utilize template files	50.28%
6) 2.2.6 Utilize sheets/layouts for plotting/printing	75.98%
7) 2.2.7 Scale sheets/layout views for plotting/printing	51.96%
3) PERFORMANCE STANDARD 2.3 : UTILIZE THE CARTESIAN COORDINATE SYSTEM TO CREATE GEOMETRY	46.23%
1) 2.3.1 Describe and utilize the Cartesian Coordinate System to create geometry (x, y, z)	57.54%
2) 2.3.2 Calculate input coordinates	34.92%
4) PERFORMANCE STANDARD 2.4 : CREATE AND MODIFY GEOMETRY UTILIZING CADD COMMANDS	65.85%
1) 2.4.1 Utilize multiple entry methods to invoke CAD commands (i.e., hot keys, icons and menus)	63.13%
2) 2.4.2 Utilize geometric relationships to ensure accuracy (i.e., endpoint, midpoint and center)	74.30%
3) 2.4.3 Create and modify objects using CAD commands	70.67%
4) 2.4.4 Assign property styles to objects	53.63%
5) 2.4.5 Access and integrate help resources to solve problems	66.48%
5) PERFORMANCE STANDARD 2.5 : CREATE AND MODIFY ANNOTATIONS	53.69%
1) 2.5.1 Define, Create, and modify industry standards text styles	35.75%
4) 2.5.4 Arrange dimensions based on industry standards (may include dual dimensioning)	50.56%
5) 2.5.5 Use industry standard symbols to annotate drawings	56.42%
7) 2.5.7 Import/export data from other programs	66.20%
6) PERFORMANCE STANDARD 2.6 : UTILIZE BASIC OUTPUT METHODS	67.60%
4) 2.6.4 Plot drawings to various output media (i.e. paper or electronic)	67.60%
3) CONTENT STANDARD 3.0 : DEMONSTRATE ADVANCED CADD SKILLS AND TECHNIQUES	60.67%
1) PERFORMANCE STANDARD 3.1 : UTILIZE TEMPLATES, SYMBOLS, AND LIBRARIES	54.47%
1) 3.1.1 Describe the use of symbols	55.59%
7) 3.1.7 Create and utilize symbol libraries	53.35%

Assessment: Architectural Drafting and Design **Number tested:179** **Content Standards, Performance Standards, Indicators**	**NV State Averages**
3) PERFORMANCE STANDARD 3.3 : UTILIZE ADVANCED OUTPUT METHODS	64.80%
3) 3.3.3 Create and apply industry standard title blocks	88.27%
4) 3.3.4 Reference external files	62.94%
5) 3.3.5 Transmit files electronically	55.87%
4) CONTENT STANDARD 4.0: APPLY ARCHITECTURAL DRAFTING AND DESIGN	61.19%
1) PERFORMANCE STANDARD 4.1 : IDENTIFY ARCHITECTURAL DRAFTING RELATED TO ARCHITECTURAL DESIGN	60.74%
2) 4.1.2 Identify construction terminology and materials	37.99%
3) 4.1.3 Identify architectural symbols	84.64%
4) 4.1.4 Identify architectural design and planning concepts	47.21%
6) 4.1.6 Interpret construction-related drawings	60.61%
2) PERFORMANCE STANDARD 4.2 : PREPARE ARCHITECTURAL DRAFTING RELATED TO DESIGN CRITERIA	61.55%
4) 4.2.4 Apply industry standards, codes, and regulations to architectural designs	67.32%
5) 4.2.5 Use mathematical formulas to support proper application of building codes	70.95%
6) 4.2.6 Arrange appropriate architectural symbols	46.37%
3) PERFORMANCE STANDARD 4.3 : CREATE ARCHITECTURAL DRAFTING VIEWS AND DETAILS RELATED TO DESIGN CRITERIA	57.73%
1) 4.3.1 Create an exterior elevation from an existing floor plan	38.27%
2) 4.3.2 Create an interior elevations (i.e. kitchen, bathroom)	55.31%
3) 4.3.3 Create a roof plan utilizing pitch/slope calculations according to appropriate building codes	81.56%
4) 4.3.4 Create a building sections and details from an existing floor plan	50.00%
5) 4.3.5 Prepare and draft schedules (i.e. window, door, room)	68.72%
4) PERFORMANCE STANDARD 4.4 : DEFINE AND APPLY CIVIL SITE DRAFTING CONCEPTS RELATED TO CIVIL ENGINEERING	78.21%
2) 4.4.2 Interpret civil engineering-related drawings	78.21%